Suisun Marsh: Current Status **Victor Pacheco Division of Environmental Services Department of Water Resources** March 2004















Suisun Marsh Building Momentum

- Bay-Delta Accord (1994)
- Sacramento-San Joaquin Delta Water Quality Control Plan (1995)
- Suisun Ecological Workgroup (1995 2002)
- Suisun Marsh Preservation Agreement Amendment 3
 Negotiations (1995 -1999*)
- Suisun Marsh Flooding (1998)
- Suisun Marsh Levee Investigation Team (1998 -2000)

Suisun Marsh Building Momentum

1994 1999 2004

- SWRCB D-1641 (1999)
- CALFED Record of Decision (2000)
- Suisun Marsh Charter (2000 2001)
- Development of Habitat Management, Preservation, and Restoration Plan for Suisun Marsh (2003 - ____)
- Making Science Work for Suisun Marsh (2004)

Development of Habitat Management, Preservation, and Restoration for Suisun Marsh

- Principal Charter Agencies
 - USBR: NEPA Co-Lead Agency
 - USFWS: NEPA Co-Lead Agency
 - NOAA Fisheries: NEPA Cooperating Agency
 - DFG: CEQA Lead Agency
 - SRCD: CEQA Responsible Agency
 - CBDA: CEQA Responsible Agency
 - DWR: CEQA Responsible Agency















SUISUN MARSH PLAN GOALS AND ISSUES

- Ecological Processes
- Habitats
- Levee System Integrity
- Non-Native Invasive Species
- Water and Sediment Quality
- Public Use and Waterfowl Hunting

Preliminary Goal 1: **Ecological Processes**

- Rehabilitate Natural Processes
- Support Aquatic and Terrestrial Biotic
 Communities and Habitats
- Favor native species
- Focus on Waterfowl and Sensitive Species

Preliminary Goal 1: Issues **Ecological Processes**

- Effects on Fish, Wildlife and Plants
- Subsidence of Leveed Areas
- Degradation of Infrastructure
- Isolation of Managed Wetlands and Suisun Marsh Plain from Tidal Influence

Preliminary Goal 2: **Habitats**

- Protect, Restore, and Enhance Habitat Types
- Support Ecological Values
 - Species and Biotic Communities
 - Scientific Research
- Support Public Values
 - Recreation
 - Aesthetics

Preliminary Goal 2: Issues **Habitats**

- Reduced Availability of Habitat for tidal Marsh Dependent Species
- Impacts on Tidal Marsh Dependent Species
- Resource Management Conflicts
- Entrainment of Fish from Unscreened Water Diversions

Preliminary Goal 3: Levee System Integrity

- Maintain and Improve Suisun Marsh Levee System Integrity
- Provide Long-term Protection for Multiple Resources

Preliminary Goal 3: Issues Levee System Integrity

- Difficult to Maintain Exterior Levees
 - Limitations on Material, High Costs and Other Constraints
- Lack of a Coordinated Emergency Response Plan

Preliminary Goal 4: **Non-Native Invasive Species**

- Prevent the Establishment of Additional Non-native Species
- Reduce Ecological and Economic Impacts of Established Non-native Species

Preliminary Goal 4: Issues **Non-Native Invasive Species**

 Abundance of Non-native Invasive Species in the Marsh

- Presence Detrimental to Native Species
 - Competition
 - Predation

Preliminary Goal 5: Water and Sediment Quality

- Improve and/or Maintain Water and Sediment Quality
- Provide Good Quality Water for All Beneficial Uses
- Support Healthy and Diverse Aquatic Ecosystem
- Eliminate Toxic Impacts to Aquatic Organisms, Wildlife, and People

Preliminary Goal 5: Issues Water and Sediment Quality

- Methyl Mercury
- Effects of Planned Breaches or Levee Failures on Marsh and Delta Salinity Levels
- Low Dissolved Oxygen Levels
- Localized Higher Salinity and Decreased Tide Stage

Preliminary Goal 6: **Public Use and Waterfowl Hunting**

- Maintain Waterfowl Hunting Heritage
- Maintain Surrounding Communities
- Increase Awareness of Marsh Ecological Values

Preliminary Goal 6: Issues **Public Use and Waterfowl Hunting**

- Awareness of Suisun Marsh and Resources
- Potential Impacts on Waterfowl Hunting Heritage, and Hunting Success
- Landowner Willingness and Cooperation to Change Management
- Secondary Economic Impacts on the Local Economy
- Impacts to Unique Ecological and Cultural Characteristics

Suisun Marsh Moving Forward

2004 2007

Charter Goal:

Develop a regional plan that balances implementation of the CALFED Program, Suisun Marsh Preservation Agreement, and other management and restoration programs within Suisun Marsh, in a manner responsive to the concerns of stakeholders and based upon voluntary participation by private land owners.

Suisun Marsh Planning Conceptual Model

Levee
Program
Planning
Process

Tidal Marsh Recovery Needs

Bay-Delta Program Goals Regional General Permit Renewal Suisun Marsh Preservation Agreement Amendment

Development of Habitat
Management, Preservation, and
Restoration Plan for
Suisun Marsh

Allow Amendments To the SMPA

Stable Regulatory Climate

Development of Levee Program Strategy

Facilitate
Investments
in
Suisun for
Beneficial
Uses

Agency
Coordination
and
Collaboration
&
Stakeholder
Involvement

Managed Wetlands Enhancement and Tidal Wetland Restoration

Suisun Marsh: Current Status

Issues?















